

KleerSEP
Vehicle Wash-water Recycling Systems.

Green Machines, Bangalore.
greening your enterprise...

Pollution norms are becoming stringent by the day and as a responsible service station operator you cannot afford to over look the problems of safe disposal of large amounts of wastewater generated in your facility.

Well maintained car wash facilities typically use about 60-80 litres per vehicle without recycling wash water, and automatic systems with water recycling can use less than 28-40 litres.

However, without water recycling or rigorous maintenance, automatic systems can easily use more than 280-300 litres per vehicle.

KleerSEP offers a reliable solution to vehicle wash water recycling so that the water can either be safely discharged or reused saving money for you.

KleerSEP separates oils, grease, sludge, bacteria and odor from the wash water through a well defined yet simple process.

Compact and silent system that is economical to own and operate.

Installed after the settling tanks KleerSEP can provide a complete solution to protecting spray nozzles and avoiding unnecessary shutdowns.

KleerSEP Vehicle Wash Water Recycling Systems.

From 1000 litres per hour onwards.

Technology.

Installed after the settling tank of washing system, KleerSEP starts with complete suction of floating oil from the settling tank along with contaminated water.

- A centrifugal pump with an SS Float (that targets floating oil in the tank) draws water from the tank.
- The oily-water goes in to the Oil Water Separator where all the free oil is coalesced out and sent to a collection tank.
- Oil-free water falls in to the Flocculation Tank.
- A Dosing Unit adds the pre-determined quantity of coagulants and flocculants to the water.

This mix of chemicals are stirred thoroughly by a gear-driven SS Stirrer for 2 to 3 minutes at the end of which the waste water breaks into clear water and sludge particles(called Floccs)

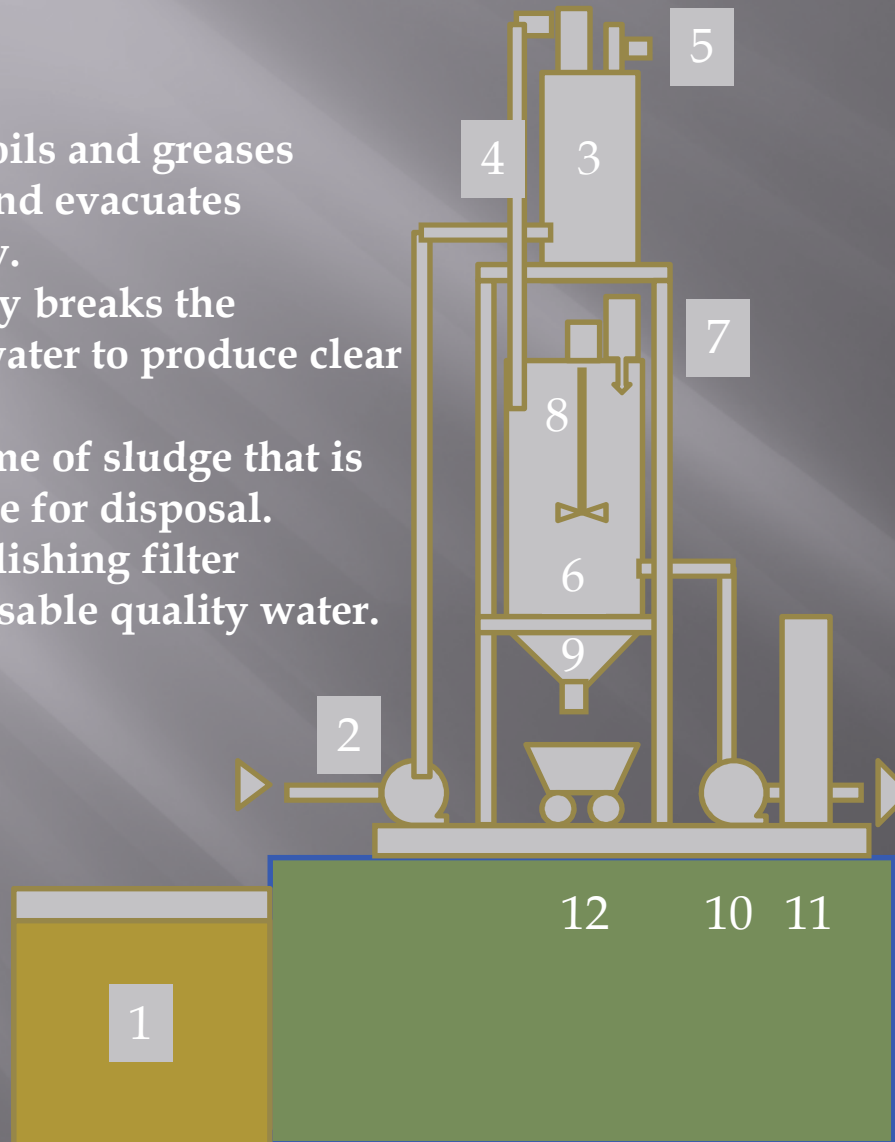
- The floccs settle down quickly at the bottom of the Flocculation tank.
- The clear water is drawn off by a Centrifugal pump and the water is sent in to a Jumbo sized 5 micron filter which clarifies the water further which will be fit for re-use.
- We use an unique Cross-flow filtration technique to extend the life of the 5 micron filter.
- The settled floccs are drained out manually from the Flocculation tank for safe disposal.
The floccs are inert oxides that are harmless to the environment.
- The entire operation is automatic, controlled by sensors.

KleerSEP-1000.

Vehicle Wash water Recycling Systems.

Features –

- It removes oils and greases from water and evacuates automatically.
- It chemically breaks the Emulsified water to produce clear water.
- Small volume of sludge that is inert and safe for disposal.
- 5Micron Polishing filter produces reusable quality water.



1. Wash water sump.
2. Suction Pump .
3. Oil Water Separator .
4. Oil-free water flow.
5. Separated oil outlet.
6. Coagulation&Flocculation Tank.
7. Chemical Doser Unit.
8. Geared Stirrer.
9. Sludge Drain.
10. Clarified water Pump.
11. 5Micron Filter.
12. Sludge Trolley.

Process Capacity: 1000LPH.

Dimensions:

2.2m L x 1.7m W x 3.1m H.

Thank You.